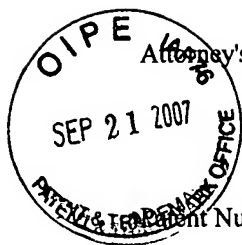


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Attorney's Docket No. 944-005.007

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number: 7,230,993

Issued: June 12, 2007

Name of Patentee: Keijo Ruotsalainen et al.

Title of Invention: *Method and apparatus for modulation using an at least four-dimensional signal constellation*

Director of the United States Patent & Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

ATTENTION: Decision and Certificate of Correction  
Branch of the Patent Issue Division

Certificate  
SEP 26 2007  
of Correction

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE (37 CFR 1.322(a))**

1. Attached in duplicate is Form PTO-1050 with at least one copy being suitable for printing.

NOTE: --- Form PTO-1050, using the column and line number in the printed patent, should be used exclusively regardless of the length or complexity of the subject matter. MPEP § 1485.

NOTE: The patent grant should be retained by the patentee. The PTO does not attach the certificate of correction to the patentee's copy of the patent. The patent grant will be returned to the patentee if submitted. MPEP § 1485.

CERTIFICATE OF MAILING/TRANSMISSION UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal Service with sufficient postage as first-class mail, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FACSIMILE

☐ transmitted by facsimile to the U.S. Patent and Trademark Office.

Signature

Date: 19 September 2007

Annemarie Maher

Sue Muro / Annemarie Maher

(type or print name of person certifying)

SEP 26 2007

2. The exact page and line number where the errors are shown correctly in the application file are:

NOTE: This information should be identified in this request, however, on Form PTO-1050, only the column and line number in the printed patent should be used. MPEP § 1485.

1. *Information Disclosure Statement filed October 13, 2006, Form PTO-1449*

3. Please send the Certificate to:


Name: James A. Retter  
Ware, Fressola, Van Der Sluys & Adolphson LLP  
Address: Bradford Green, Building Five, 755 Main Street, P.O. Box 224  
Monroe, Connecticut 06468

(Complete, if applicable)

\_\_\_\_\_  
Signature(s) of patentee(s)

or

\_\_\_\_\_  
(type or print name of assignee)

  
\_\_\_\_\_  
Signature of assignee or person authorized to  
sign on behalf of assignee

☐ Assignment recorded on

Date \_\_\_\_\_

James A. Retter, Reg. No. 41,266  
(type or print name of authorized person signing)

Reel \_\_\_\_\_

Frame \_\_\_\_\_

Attorney for Patentee  
(Title of authorized person signing)

☐ Recordal of assignment attached

☐ Attached is a "CERTIFICATE UNDER 37 CFR 3.73(b)" establishing the right of the assignee to take action in this case.

NOTE: "A certificate of correction, under 35 U.S.C. 254, may be issued at the request of the patentee or his assignee." 37 CFR 1.322(a). The certificate of correction can be signed by the attorney of record who acts on behalf of the inventor(s) or assignee(s).

SEP 26 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,230,993  
APPLICATION NO.: 10/092,358  
ISSUE DATE : June 12, 2007  
INVENTOR(S) : K. RUOTSALAINEN et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1. On cover sheet, under "References Cited," please add the following foreign reference:

EP 0 485 105 A2 to Victor Bernard Lawrence, published May 13, 1992.

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

Ware, Fressola, Van Der Sluys & Adolphson LLP  
Bradford Green, Bldg. 5, 755 Main St., P.O. Box 224  
Monroe, CT 06468

Atty. Docket No. 944-005.007

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

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**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 1

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